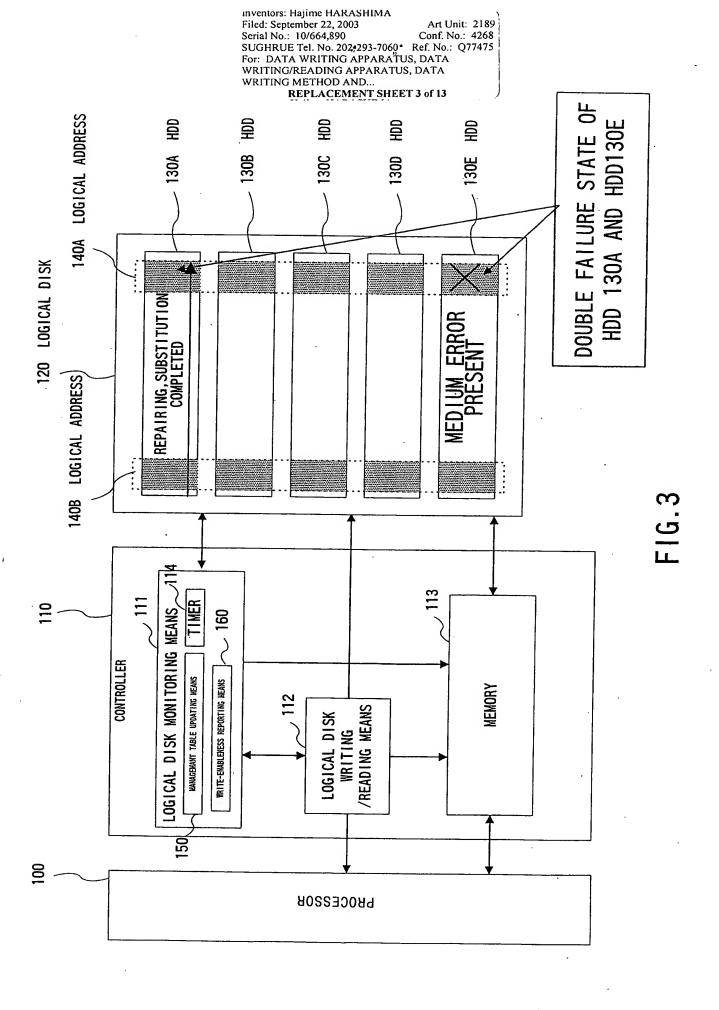


FIG.2



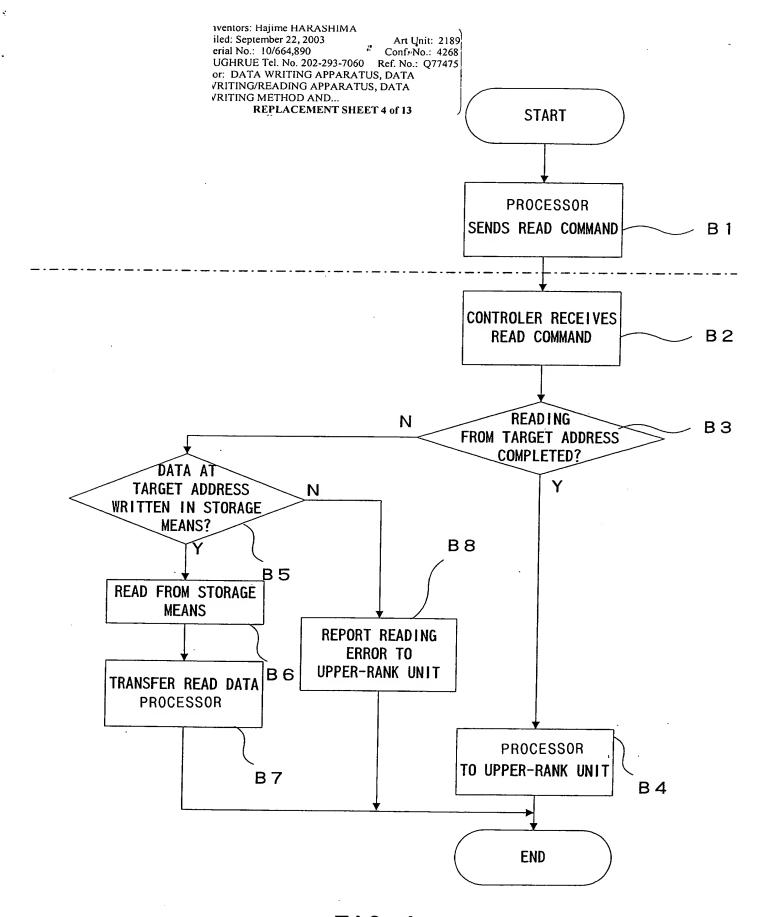


FIG.4

Inventors: Hajime HARASHIMA
Filed: September 22, 2003
Serial No.: 10/664,890 " Conf. No.: 4268
SUGHRUE Tel. No. 202-293-7060 Ref. No.: Q77475
For: DATA WRITING APPARATUS, DATA
WRITING/READING APPARATUS, DATA
WRITING METHOD AND...
REPLACEMENT SHEET 5 of 13

LOGICAL ADDRESS 1. Repair 2. REASSIGN DONE/UNDONE Read 3. Write

F16.5

Inventors: Hajime HARASHIMA
Filed: September 22, 2003
Serial No.: 10/664,890
Conf. No.: 4268
SUGHRUE Tel. No. 202-293-7060
For: DATA WRITING APPARATUS, DATA
WRITING/READING APPARATUS, DATA
WRITING METHOD AND...
REPLACEMENT SHEET 6 of 13

LOGICAL ADDRESS	140A	A
1. Repair	Repairskip	skip
2. REASSIGN DONE/UNDONE	Reasign OK	n OK
3. Read / Write	READ NG	WRITE OK

iventors: Hajime HARASHIMA iled: September 22, 2003# erial No.: 10/664,890 iled: September 22, 2003# ...* Art Unit: 2189
crial No.: 10/664,890 Conf. No.: 4268
UGHRUE Tel. No. 202-293-7060 Ref. No.: Q77475
or: DATA WRITING APPARATUS, DATA
VRITING/READING APPARATUS, DATA
VRITING METHOD AND...
REPLACEMENT SHEET 7 of 13

140B	Repair OK		WRITE OK
	Repa		READ OK
LOGICAL ADDRESS	1. Repair	2. REASSIGN DONE/UNDONE	3. Read / Write

Inventors: Hajime HARASHIMA Filed: September 22, 2003 Art Unit: 2189 Serial No.: 10/664,890 Conf. No.: 4268 SUGHRUE Tel. No. 202-293-7060 Ref. No.: Q77475 For: DATA WRITING APPARATUS, DATA WRITING/READING APPARATUS, DATA WRITING METHOD AND... REPLACEMENT SHEET 8 of 13

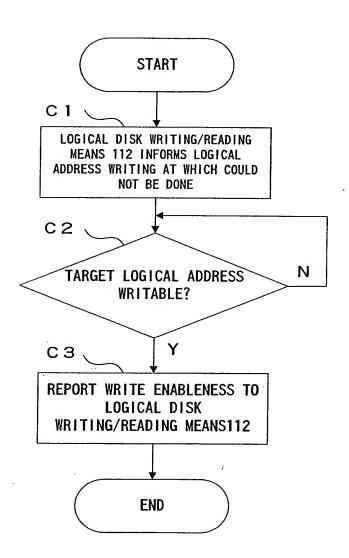
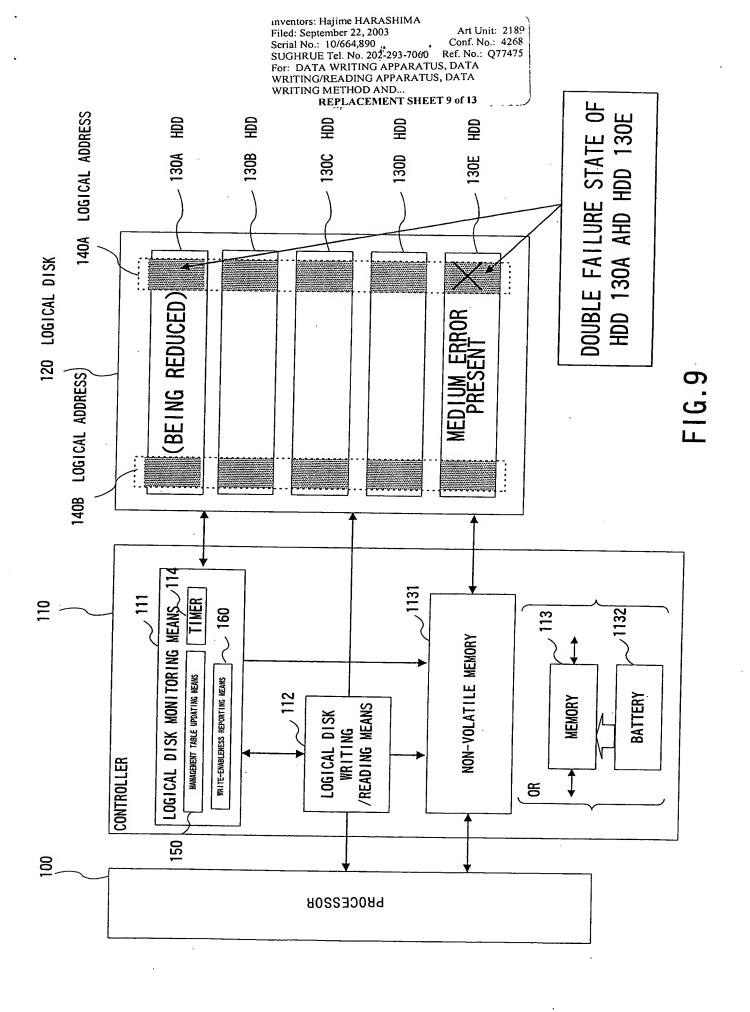
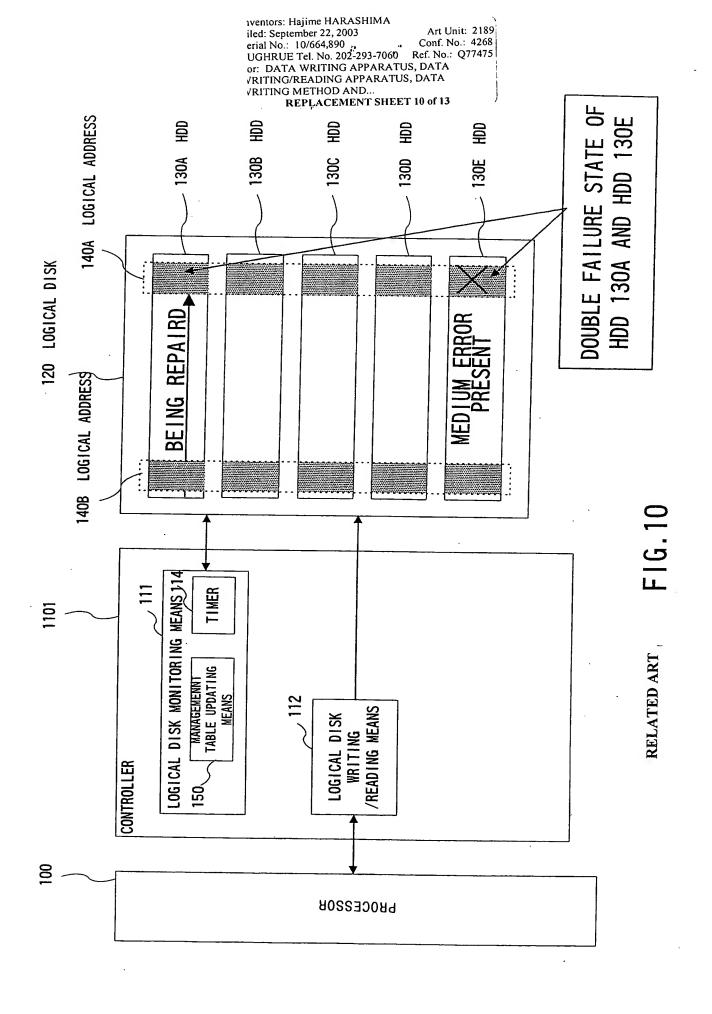


FIG.8





Inventors: Hajime HARASHIMA
Filed: September 22, 2003
Serial No.: 10/664,890
SUGHRUE Tel. No. 202-293-7060
For: DATA WRITING APPARATUS, DATA
WRITING/READING APPARATUS, DATA
WRITING METHOD AND...
REPLACEMENT SHEET 11 of 13

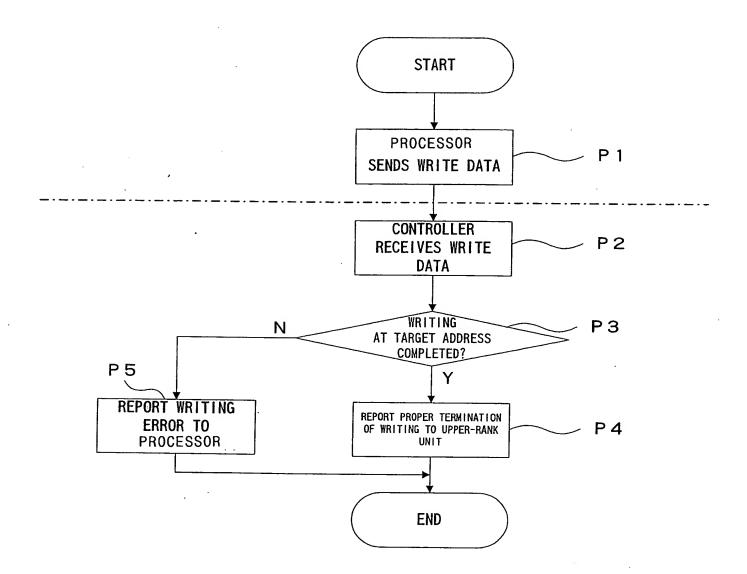


FIG. 11

PRIOR ART

Inventors: Hajime HARASHIMA
Filed: September 22, 2003 " Art Unit: 2189
Serial No.: 10/664,890 Conf. No.: 4268
SUGHRUE Tel. No. 202-293-7060 Ref. No.: Q77475
For: DATA WRITING APPARATUS, DATA
WRITING/READING APPARATUS, DATA
WRITING METHOD AND.
REPLACEMENT SHEET 12 of 13

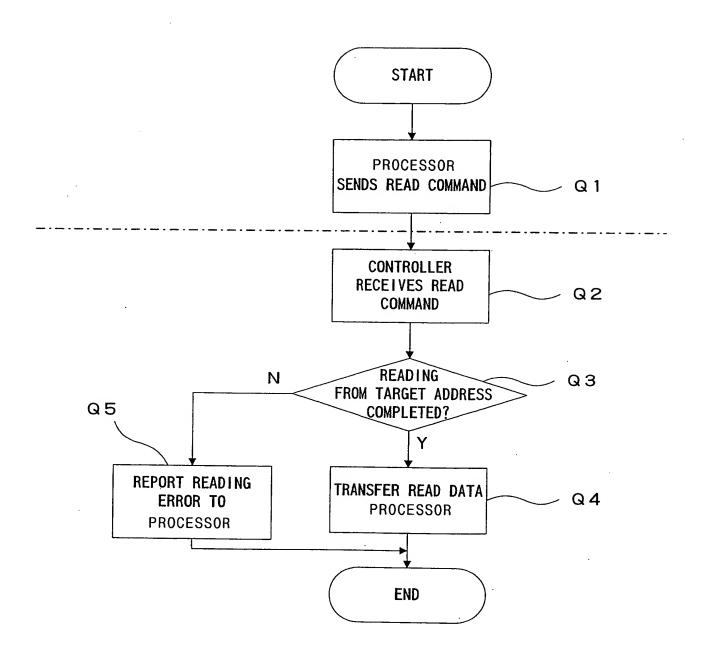


FIG. 12

PRIOR ART

iventors: Hajime HARASHIMA
iled: September 22, 2005
erial No.: 10/664,890
UGHRUE Tel. No. 202-293-7060
or: DATA WRITING APPARATUS, DATA
VRITING/READING APPARATUS, DATA
VRITING METHOD AND...
REPLACEMENT SHEET 13 of 13

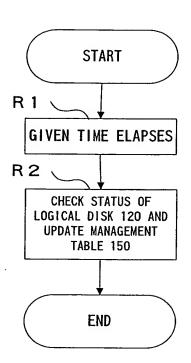


FIG. 13

RELATED ART